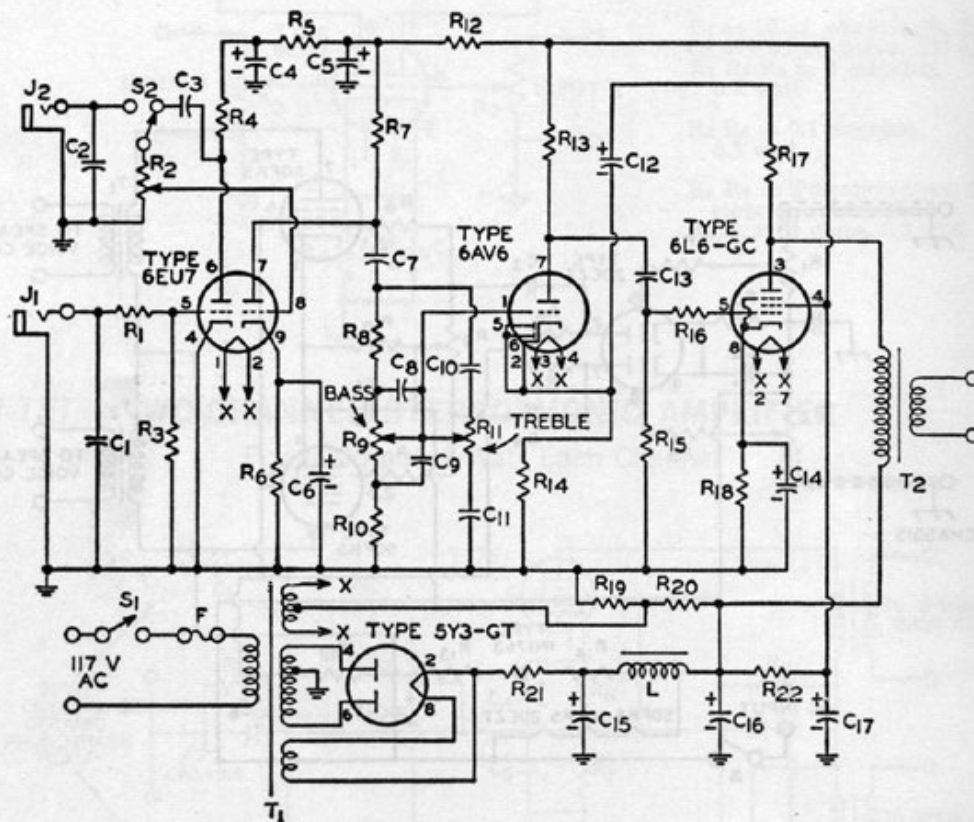


(23-17)

MICROPHONE AND PHONOGRAPH AMPLIFIER

Power Output, 8 Watts



$C_1 C_2 = 100$ pf disc-ceramic, 300 v.
 $C_3 = 0.05$ μ f, paper, 200 v.
 $C_4 = 8$ μ f, electrolytic, 450 v.
 $C_5 = 16$ μ f, electrolytic, 450 v.
 $C_6 = 25$ μ f, electrolytic, 450 v.
 $C_7 = 0.1$ μ f, paper, 200 v.
 $C_8 = 0.001$ μ f, disc-ceramic, 300 v.
 $C_9 = 0.01$ μ f, disc-ceramic, 300 v.
 $C_{10} = 470$ pf, dis-ceramic, 300 v.
 $C_{11} = 4700$ pf, dis-ceramic, 300 v.
 $C_{12} = 4$ μ f, electrolytic, 450 v.
 $C_{13} = 0.05$ μ f, paper, 600 v.
 $C_{14} = 25$ μ f, electrolytic, 25 v.
 $C_{15} C_{16} C_{17} = 20$ μ f, electrolytic, 450 v.

F = Fuse, 1 ampere
 J_1 = Jack for high-impedance crystal microphone input; max. input: 2 millivolts peak
 J_2 = Jack for crystal phono-pickup input; max. input: 0.5 volt peak
 L = Filter choke, 5 henries, 200 ma.
 $R_1 R_{10} = 10000$ ohms, 0.5 watt
 R_2 = Volume Control, potentiometer, 1 megohm
 $R_3 = 2.2$ megohms, 0.5 watt
 $R_4 R_5 R_{20} = 0.22$ megohm, 0.5 watt
 $R_6 = 27000$ ohms, 0.5 watt
 $R_7 = 1200$ ohms, 0.5 watt
 $R_7 R_{13} = 0.1$ megohm, 0.5 watt

$R_8 R_{11} =$ Tone control, potentiometer, 0.5 megohm
 $R_{10} = 22000$ ohms, 0.5 watt
 $R_{12} = 12000$ ohms, 0.5 watt
 $R_{14} = 1800$ ohms, 0.5 watt
 $R_{15} = 0.47$ megohm, 0.5 watt
 $R_{17} = 0.15$ megohm, 0.5 watt
 $R_{18} = 180$ ohms, 2 watts
 $R_{19} = 47000$ ohms, 1 watt
 $R_{21} = 50$ ohms, 10 watts
 $R_{22} = 8200$ ohms, 2 watts
 S_1 = Switch, SPST
 S_2 = Switch, SPDT
 T_1 = Power transformer, 300-0-300 v., 90 ma.; 6.3 v., 3.5 a. center tapped; 5 v., 2 a.
 T_2 = Output transformer for matching impedance of voice coil to 4000-ohm tube load; 10 watts